

IN THE CLAIMS

Please cancel claims 8, 17, 27, 36, 46, and 55, and amend claims 1, 12, 13, 20, 31, 32, 39, 50, and 51 as follows:

1. (CURRENTLY AMENDED) A method for collaborating access to a drawing document on a network, comprising:

storing a drawing document on a server;  
receiving, in the server, a request to open the drawing document;  
in response to the request, the server establishing a collaboration session, wherein during the collaboration session, the server permits two or more collaborators to view and work simultaneously across the network on the drawing document stored on the server, wherein each of the two or more collaborators view, in real time, a modification to the drawing document made by another collaborator;  
receiving, in the server, a first heartbeat command regularly transmitted at a defined interval, wherein the first heartbeat command comprises a command to modify the drawing document from a first one of the collaborators in the collaboration session; and  
the server distributing the command to modify the drawing document as part of a second heartbeat command to other ones of the collaborators in the collaboration session.

2. (ORIGINAL) The method of claim 1, further comprising the server maintaining a history of modifications to the drawing document.

3. (ORIGINAL) The method of claim 2, wherein the history is used to support an undo command.

4. (ORIGINAL) The method of claim 2, wherein the history is used to recommunicate modifications to the two or more collaborators.

5. (ORIGINAL) The method of claim 1, further comprising the server maintaining a record of the collaboration session including name, numbers, and statuses of the two or more collaborators.

6. (ORIGINAL) The method of claim 1, wherein the command comprises an extensible markup language (XML) command.

7. (ORIGINAL) The method of claim 1, wherein the two or more collaborators all have write-access for the drawing document during the collaboration session.

8. (CANCELLED)

9. (ORIGINAL) The method of claim 1, further comprising:  
generating an identifier for the command;  
distributing the identifier with the command to the other collaborators in the collaboration session.

10. (ORIGINAL) The method of claim 1, wherein the command specifies an object identifier for an object in the drawing document that is modified.

11. (ORIGINAL) The method of claim 1, wherein an extensible set of three dimensional modeling tools for modifying the drawing document is supported.

12. (CURRENTLY AMENDED) A method for accessing a drawing document on a network, comprising:

joining an existing collaboration session comprised of a collaborator on a network, wherein during the collaboration session, collaborators in the collaboration session can view and work simultaneously across the network on a drawing document stored on a server, wherein each of the collaborators in the collaboration session view, in real time, a modification to the drawing document made by another collaborator; and

transmitting, to the server, a first heartbeat command regularly transmitted at a defined interval wherein the first heartbeat command comprises a command to modify the drawing document.

13. (CURRENTLY AMENDED) The method of claim 12, further comprising receiving a second command to modify the document as part of a second heartbeat command from the server wherein the command was originally transmitted from another collaborator.

14. (ORIGINAL) The method of claim 12, wherein the command comprises an undo command.

15. (ORIGINAL) The method of claim 12, wherein the command comprises an extensible markup language (XML) command.

16. (ORIGINAL) The method of claim 12, further comprising displaying a collaboration palette that provides information relating to the collaborators in the collaboration session.

17. (CANCELED)

18. (ORIGINAL) The method of claim 12, wherein the command specifies an object identifier for an object in the drawing document that is modified.

19. (ORIGINAL) The method of claim 12, wherein an extensible set of three dimensional modeling tools for modifying the drawing document is supported.

20. (CURRENTLY AMENDED) An system for collaborating access to a drawing document on a network comprising:

- (a) a server connected to a network and having a memory and a data storage device coupled thereto;
- (b) a drawing document stored on the server; and
- (c) a computer program, performed by the server, the computer program configured to:
  - (i) receive a request to open the drawing document;

(ii) in response to the request, establishing a collaboration session, wherein during the collaboration session, the computer program permits two or more collaborators to view and work simultaneously across the network on the drawing document, wherein each of the two or more collaborators view, in real time, a modification to the drawing document made by another collaborator;

(iii) receive a first heartbeat command regularly transmitted at a defined interval wherein the first heartbeat command comprises a command to modify the drawing document from a first one of the collaborators in the collaboration session; and

(iv) distribute the command to modify the drawing document as part of a second heartbeat command to other ones of the collaborators in the collaboration session.

21. (ORIGINAL) The system of claim 20, wherein the computer program is further configured to maintain a history of modifications to the drawing document.

22. (ORIGINAL) The system of claim 21, wherein the history is used to support an undo command.

23. (ORIGINAL) The system of claim 21, wherein the history is used to recommunicate modifications to the two or more collaborators.

24. (ORIGINAL) The system of claim 20, wherein the computer program is further configured to maintain a record of the collaboration session including name, numbers, and statuses of the two or more collaborators.

25. (ORIGINAL) The system of claim 20, wherein the command comprises an extensible markup language (XML) command.

26. (ORIGINAL) The system of claim 20, wherein the two or more collaborators all have write-access for the drawing document during the collaboration session.

27. (CANCELLED)
28. (ORIGINAL) The system of claim 20, wherein the computer program is further configured to:
  - generate an identifier for the command;
  - distribute the identifier with the command to the other collaborators in the collaboration session.
29. (ORIGINAL) The system of claim 20, wherein the command specifies an object identifier for an object in the drawing document that is modified.

30. (ORIGINAL) The system of claim 20, wherein the computer program supports an extensible set of three dimensional modeling tools for modifying the drawing document.

31. (CURRENTLY AMENDED) A system for accessing a drawing document on a network, comprising:

- (a) a collaborator connected to a network and having a memory and a data storage device coupled thereto; and
- (b) a computer program, performed by the collaborator, the computer program configured to:
  - (i) join an existing collaboration session comprised of a collaborator on a network, wherein during the collaboration session, collaborators in the collaboration session view and work simultaneously across the network on a drawing document stored on a server, wherein each of the collaborators view, in real time, a modification to the drawing document made by another collaborator; and
  - (ii) transmit, to the server, a first heartbeat command regularly transmitted at a defined interval, wherein the first heartbeat command comprises a command to modify the drawing document.

32. (CURRENTLY AMENDED) The system of claim 31, the computer program further configured to receive a second command, as part of a second heartbeat command, to modify

the document from the server wherein the command was originally transmitted from another collaborator.

33. (ORIGINAL) The system of claim 31, wherein the command comprises an undo command.

34. (ORIGINAL) The system of claim 31, wherein the command comprises an extensible markup language (XML) command.

35. (ORIGINAL) The system of claim 31, further, wherein the computer program is further configured to display a collaboration palette that provides information relating to the collaborators in the collaboration session.

36. (CANCELLED)

37. (ORIGINAL) The system of claim 31, wherein the command specifies an object identifier for an object in the drawing document that is modified.

38. (ORIGINAL) The system of claim 31, wherein the computer program supports an extensible set of three dimensional modeling tools for modifying the drawing document.

39. (CURRENTLY AMENDED) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to perform a method for collaborating access to a drawing document on a network, the method comprising:

storing a drawing document on a server;

receiving, in the server, a request to open the drawing document;

in response to the request, the server establishing a collaboration session, wherein during the collaboration session, the server permits two or more collaborators to view and work simultaneously across the network on the drawing document stored on the server, wherein each of the two or more

collaborators view, in real time, a modification to the drawing document made by another collaborator;

receiving, in the server, a first heartbeat command regularly transmitted at a defined interval,  
wherein the first heartbeat command comprises a command to modify the drawing document from  
a first one of the collaborators in the collaboration session; and

the server distributing the command to modify the drawing document as part of a second  
heartbeat command to other ones of the collaborators in the collaboration session.

40. (ORIGINAL) The article of manufacture of claim 39, wherein the method further comprises the server maintaining a history of modifications to the drawing document.

41. (ORIGINAL) The article of manufacture of claim 40, wherein the history is used to support an undo command.

42. (ORIGINAL) The article of manufacture of claim 40, wherein the history is used to recommunicate modifications to the two or more collaborators.

43. (ORIGINAL) The article of manufacture of claim 39, wherein the method further comprises the server maintaining a record of the collaboration session including name, numbers, and statuses of the two or more collaborators.

44. (ORIGINAL) The article of manufacture of claim 39, wherein the command comprises an extensible markup language (XML) command.

45. (ORIGINAL) The article of manufacture of claim 39, wherein the two or more collaborators all have write-access for the drawing document during the collaboration session.

46. (CANCELLED)

47. (ORIGINAL) The article of manufacture of claim 39, wherein the method further comprises:

generating an identifier for the command;  
distributing the identifier with the command to the other collaborators in the collaboration session.

48. (ORIGINAL) The article of manufacture of claim 39, wherein the command specifies an object identifier for an object in the drawing document that is modified.

49. (ORIGINAL) The article of manufacture of claim 39, wherein the method further comprises providing an extensible set of three dimensional modeling tools for modifying the drawing document.

50. (CURRENTLY AMENDED) An article of manufacture comprising a program storage medium readable by a computer and embodying one or more instructions executable by the computer to perform a method for accessing a drawing document on a network, the method comprising:

joining an existing collaboration session comprised of a collaborator on a network, wherein during the collaboration session, collaborators in the collaboration session view and work simultaneously across the network on a drawing document stored on a server, wherein each of the collaborators view, in real time, a modification to the drawing document made by another collaborator; and

transmitting, to the server, a first heartbeat command regularly transmitted at a defined interval, wherein the first heartbeat command comprises a command to modify the drawing document.

51. (CURRENTLY AMENDED) The article of manufacture of claim 50, wherein the method further comprises receiving a second command, as part of a second heartbeat command, to modify the document from the server wherein the command was originally transmitted from another collaborator.

52. (ORIGINAL) The article of manufacture of claim 50, wherein the command comprises an undo command.

53. (ORIGINAL) The article of manufacture of claim 50, wherein the command comprises an extensible markup language (XML) command.

54. (ORIGINAL) The article of manufacture of claim 50, wherein the method further comprises displaying a collaboration palette that provides information relating to the collaborators in the collaboration session.

55. (CANCELLED)

56. (ORIGINAL) The article of manufacture of claim 50, wherein the command specifies an object identifier for an object in the drawing document that is modified.

57. (ORIGINAL) The article of manufacture of claim 50, wherein the method further comprises providing an extensible set of three dimensional modeling tools for modifying the drawing document.